18-0315-50

RID001194023 1 508 757-7782

BASF Corporation
100 Park Ave
Florham Park, NJ 07932
973 245-5269

BASF Corporation
180 Mill St.
Cranston, RI 02905

Material Sand & Gravel

Rhode Island Resource Recovery
65 Shun Pike
Johnston, RI 02919

RID980520163

401 942-1430

Non-DOT/Non-RCRA Regulated Soil

1 DT T

18-0315 Weight is estimated

1)20182002-180MillStreet Soil

Rate code 132

2A

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
RID001194323	1	508 757-7782	18-0315-50

5. Generator's Name and Mailing Address

BASF Corporation
100 Park Ave
Florham Park, NJ 07932

Generator's Phone: 973 245-5269

Generator's Site Address (if different than mailing address)

BASF Corporation
180 Mill St.
Cranston, RI 02905

6. Transporter 1 Company Name: MATTIOLI SAND + GRAVEL — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Rhode Island Resource Recovery
65 Shun Pike
Johnston, RI 029191

RID980520183

Facility's Phone: 401 942-1430

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-DOT/Non-RCRA Regulated Soil	1	DT	30	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

18-0315 Weight is estimated

1) 20181002-180MillStreet Soil

Rate code 132

2A

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Joshua Klement (As Agent for BASF) — Signature: Joshua Klement — Month: 10 — Day: 3 — Year: 18

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Thomas Brown — Signature: Thomas Brown — Month: 10 — Day: 3 — Year: 18

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature: Karen Johnson — Month — Day — Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

DESIGNATED FACILITY'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
RID001194323	1	508 757-2782	18-0315-50

GENERATOR

5. Generator's Name and Mailing Address

BASF Corporation
100 Park Ave
Florham Park, NJ 07932

Generator's Phone: 973 245-5269

Generator's Site Address (if different than mailing address)

BASF Corporation
180 Mill St.
Cranston, RI 02905

6. Transporter 1 Company Name: MATERIAL SAND + GRAVEL — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Rhode Island Resource Recovery
65 Shun Pike
Johnston, RI 029191

RID980520183

Facility's Phone: 401 942-1430

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-DOT/Non-RCRA Regulated Soil	1	DT	30	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

18-0315 Weight is estimated

1) 20181002-180MillStreet Soil

Rate code 132

2A

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Joshua Klement (As Agent for BASF) — Signature: Joshua Klement — Month: 10 — Day: 3 — Year: 18

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Thomas Brown — Signature: Thomas Brown — Month: 10 — Day: 3 — Year: 18

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature: Karen Johnson — Month — Day — Year

MATERIAL SAND & STONE CORP.

WASHED SAND AND GRAVEL
618 GREENVILLE ROAD
NORTH SMITHFIELD, R.I. 02896
TEL. 767-3420
232-3010

DATE 10/3/18

M. Strategic Enviro

Address Mill St, Cranston

CUBIC YDS. Rental 7am - 1pm

	SAND Hauled To		
	GRAVEL RI. Landfill		
	SUB SOIL		
	LOAM		
	FILL		
	STONES #1		
HOURS (6 @ 100 / hr)			
	SHOVEL DOZER		
	TRAILER (116)		
	BACK HOE		
	TRUCKS		
	LABOR		
	SALES TAX		
	TOTAL		

REC'D BY

SP 5/12

51401

Not Responsible For Any Damage

SIR SPEEDY PRINTING, SMITHFIELD, RI (401) 232-2000 33218906

RHODE ISLAND RESOURCE RECOVERY CORPORATION

CENTRAL LANDFILL
65 SHUN PIKE
JOHNSTON, RI 02919

OFFICE 401.942.1430
FAX 401.946.5174

103254124
RECEIPT DOCUMENT NUMBER

BILL TO

STRA100317
STRATEGIC ENVIRONMENTAL SERVICES, INC.
362 PUTNAM HILL ROAD
SUTTON, MA01590-

HAULER

STRA100317
STRATEGIC ENVIRONMENTAL SERVICES, INC.
362 PUTNAM HILL ROAD
SUTTON, MA01590-

DATE	ENTRY TIME	OPER.	EXIT TIME	OPER.	MEASUREMENT	POUNDS	TONS	SCALE
10/3/18	11:22:46	CB	11:23:32	CB	GROSS:	110120	55.06	Scale 2
					TARE:	35800	17.90	P.T.
VEHICLE NUMBER	VEHICLE TYPE	PLATE NUMBER	TRANSACTION TYPE		NET:	74320	37.16	
SS116	Roll Off		Inbound					

CODE	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
132	Solid Waste Soils w Approval Host Comunity Fee	37.16	Ton		
	180 MILL STREET 10-2-18				

DECLARATION REGARDING WASTE DELIVERY

The undersigned declares, under the penalty of perjury that 100% of the solid waste delivered to the Central Landfill in the vehicle and on the date above was, was generated and collected in Rhode Island, is not Hazardous Waste and does not contain in excess of 20% recyclable material by weight, as defined by DEM regulation, and complies with all applicable laws and regulations.

Driver Signature: 10/03/2018 11:23

TOTAL AMOUNT

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
RID001194323	1	508 757-7782	18-0315-48

5. Generator's Name and Mailing Address

BASF Corporation
100 Park Ave
Florham Park, NJ 07932

Generator's Phone: 973 245-5269

Generator's Site Address (if different than mailing address)

BASF Corporation
180 Mill St.
Cranston, RI 02905

6. Transporter 1 Company Name: MATRANO SAND + GRAVEL — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Rhode Island Resource Recovery
65 Shun Pike
Johnston, RI 029191

RID980520183

Facility's Phone: 401 942-1430

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-DOT/Non-RCRA Regulated Soil	1	DT		T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

18-0315 Weight is estimated

1) 20181002-180Mill$treet Soil

Rate code 132

2A

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Joshua A Klement (Agent for BASF) — Signature: Joshua A Klement — Month: 10 — Day: 3 — Year: 18

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JOE VINCI — Signature: — Month: 10 — Day: 3 — Year: 18

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Bob B — Signature: Bob B — Month: 10 — Day: 3 — Year: 18

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

18-0315-48

RID001194323

1 508 757-7782

BASF Corporation
100 Park Ave
Florham Park, NJ 07932
973 245-5269

BASF Corporation
120 Mill St.
Cranston, RI 02905

Rhode Island Resource Recovery
65 Shun Pike
Johnston, RI 02919
401 942-1430

RID980520183

Non-DOT/Non-RCRA Regulated Soil

1	DT	T

18-0315 Weight is estimated

Rate code 132

1) 20181002-180MillStreet Soil

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
RIDOO1194323	1	508 757-7782	18-0315-48

5. Generator's Name and Mailing Address

BASF Corporation
100 Park Ave
Florham Park, NJ 07932

Generator's Phone: 973 245-5269

Generator's Site Address (if different than mailing address)

BASF Corporation
180 Mill St.
Cranston, RI 02905

6. Transporter 1 Company Name: MATRANC SAND + GRAVEL — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Rhode Island Resource Recovery
65 Shun Pike
Johnston, RI 029191

RID980520183

Facility's Phone: 401 942-1430

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-DOT/Non-RCRA Regulated Soil	1	DT	T		
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

18-0315 Weight is estimated

Rate code 132

2A

1) 20181002-180Mill Street Soil

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Joshua A. Klement (Agent for BASF) — Signature: Joshua A. Klement — Month: 10 — Day: 3 — Year: 18

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit:

Transporter Signature (for exports only): — Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JOE VINCI — Signature: — Month: 10 — Day: 3 — Year: 18

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Rob B — Signature: Rob B — Month: 10 — Day: 3 — Year: 18

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

Global Cycle Inc.

700 Richmond Street
East Taunton, MA 02718

Invoice

Date	Invoice #
10/15/2018	2796

Bill To
Strategic Environmental Attn: Accounts Payable 362 Putnam Hill Road Sutton, MA 01590

P.O. No.	Terms	Project
18-0315	Net 30	

Quantity	Description	Rate	Amount
	WASTEWATER RECYCLING SERVICES		
	site: BASF 180 Mill Street Cranston, RI		
	Wednesday, October 10, 2018		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		
	Friday, October 11, 2018		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		

Total

☒ CAPE COD CARTAGE ☐ RUTLAND
☐ DANIELSON ☐ SPRINGFIELD
☐ HOOKSETT ☐ WEST BRIDGEWATER

J. P. NOONAN
TRANSPORTATION, INC.
415 WEST STREET P.O. BOX400
WEST BRIDGEWATER, MA 02379

DATE: 10-10-18

LOAD NUMBER: 387719/

BILL OF LADING NUMBER:

BILL TO: GlobalCycle

SHIPPED FROM: BASF Cranston RI, 180 Mill st.

DELIVERED TO: GlobalCycle E. Taunton, 700 Richmond St.

DESCRIPTION	RATE	TOTAL
Wastewater 9,000 gal		
PH 8.6 vis-ok plate#96(MA) Profile# B-300001		

FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT ______ FT. ______ IN.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

RECEIVED PAYMENT	CHECK NUMBER
$	

TRACTOR NO.	TRAILER NO.	DRIVER	NUMBER
629	STK1136	David Fuchs	

DELAY LOADING	TIME IN	TIME OUT

REASON FOR DELAY LOADING

DELAY UNLOADING	TIME IN	TIME OUT

REASON FOR DELAY UNLOADING

RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SATISFACTORY

RECEIVER SIGNATURE [signature]

SIGNATURE FOR CERTIFICATION OF DELAY TIME

PTO PUMP TIME ______ HRS. ______ MIN. ______

SHIPPER [signature]

I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.
Customer Signature ______

CONSIGNEE ______

24 HOUR EMERGENCY PHONE - 800-922-8026

Bill of Lading Short Form

Carrier: J.P. Noonan
Bill of Lading #: 101018-2
Order #:
Shipper/Consignor: BASF Corporation; 180 Mill St.; Cranston, RI 02905
Consignee: GlobalCycle; 700 Richmond St.; Taunton, MA 02718
Instructions: 1st load

Date: 10/10/2018
PO #: 18-0315

Item Code	Details	Quantity	Weight (Unit)
B-300-001	Non-DOT/Non-RCRA Regulated Groundwater	9000	G
	Wastewater for Recycle		
	Total		

Terms: Prepaid [ ] Collect [ ] Other [X]

Carrier: Pick Up Date: 10-10-18 Signature: Mike Lem

Carrier acknowledges receipt of packages and that they are properly described as above and are in good order except as noted

Shipper: Pick Up Date: 10/10/2018 Signature:

This section is to make it sure that all materials are properly classified, described, packages, marked and labeled and are in good condition to be transported and according to the applicable regulations of transporting department

---

Received in Apparent Good Order

Received By: (Signatures)
Print Name Here: Stephen Pozner Date: 10/10/18

- [ ] CAPE COD CARTAGE
- [ ] RUTLAND
- [ ] DANIELSON
- [ ] SPRINGFIELD
- [ ] HOOKSETT
- [ ] WEST BRIDGEWATER

J. P. NOONAN

TRANSPORTATION, INC.
415 WEST STREET P.O. BOX400
WEST BRIDGEWATER, MA 02379

DATE: 10/10/18

LOAD NUMBER: 2877165

BILL OF LADING NUMBER:

BILL TO: Global Cycle

SHIPPED FROM: Bast Cranston
180 Mill St
Cranston RI

DELIVERED TO: Global Cycle
200 Richmond St
Taunton MA

DESCRIPTION	RATE	TOTAL
Lic Plate # D816280 (ME)		
1 Load of Waste Water		
7000 Gallons		
Non RCRA/Non Dot Regulated Liquid		
pH = 8.5		
Visual - ok		
B-300-001		

FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT ________ FT. ________ IN.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

RECEIVED PAYMENT $

CHECK NUMBER

TRACTOR NO.	TRAILER NO.	DRIVER	NUMBER
M580	3158 / 1812	Michael Burns	23

DELAY LOADING	TIME IN	TIME OUT
REASON FOR DELAY LOADING		

DELAY UNLOADING	TIME IN	TIME OUT
REASON FOR DELAY UNLOADING		

RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SATISFACTORY

RECEIVER SIGNATURE [signature]

SIGNATURE FOR CERTIFICATION OF DELAY TIME

PTO PUMP TIME ________ HRS. ________ MIN.

I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.
Customer Signature ________________

SHIPPER [signature]

CONSIGNEE ________________

24 HOUR EMERGENCY PHONE - 800-922-8026

Bill of Lading Template

Bill of Lading Short Form

Carrier: J.P. Noonan
Bill of Lading #: 101018-1
Order #:
Date: 10/10/2018
PO #: 18-0315
Shipper/Consignor: BASF Corporation; 180 Mill St.; Cranston, RI 02905
Consignee: GlobalCycle; 700 Richmond St.; Taunton, MA 02718
Instructions: 2nd load

Item Code	Details	Quantity	Weight (Unit)
B-300-001	Non-DOT/Non-RCRA Regulated Groundwater	9000	G
	Wastewater for Recycle		
	Total		

Terms: Prepaid [ ] Collect [ ] Other [X]

Carrier: Pick Up Date: 10-10-18 Signature: Mike Bun

Carrier acknowledges receipt of packages and that they are properly described as above and are in good order except as noted

Shipper: Pick Up Date: 10/10/2018 Signature:

This section is to make it sure that all materials are properly classified, described, packaged, marked and labeled and are in good condition to be transported and according to the applicable regulations of transporting department.

Received in Apparent Good Order

Received By: _____ (Signatures)
Print Name Here: Stephen Ryder Date: 10/10/18

- [x] CAPE COD CARTAGE
- [ ] RUTLAND
- [ ] DANIELSON
- [ ] SPRINGFIELD
- [ ] HOOKSETT
- [ ] WEST BRIDGEWATER

J. P. NOONAN
TRANSPORTATION, INC.
415 WEST STREET P.O. BOX400
WEST BRIDGEWATER, MA 02379

DATE: 10-11-18

LOAD NUMBER: 2877843

BILL OF LADING NUMBER:

BILL TO: Globalcycle

SHIPPED FROM: BASF Cranston, RI 180 Mill st.

DELIVERED TO: Globalcycle Taunton 700 Richmond St.

DESCRIPTION	RATE	TOTAL
Wastewater		9,000 gal
Plate# 96MN		
Prof. ID# B-300-001 PH-8.1 Vis-OK		

FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT ______ FT. ______ IN.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

RECEIVED PAYMENT $ | CHECK NUMBER

TRACTOR NO.	TRAILER NO.	DRIVER	NUMBER
6629	TK4B2	David Fichs	

	TIME IN	TIME OUT
DELAY LOADING		

REASON FOR DELAY LOADING

	TIME IN	TIME OUT
DELAY UNLOADING		

REASON FOR DELAY UNLOADING

RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SATISFACTORY

RECEIVER SIGNATURE [signature]

PTO PUMP TIME ______ HRS. ______ MIN. ______

I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.
Customer Signature ______

SIGNATURE FOR CERTIFICATION OF DELAY TIME

SHIPPER [signature] F. M'C... SES

CONSIGNEE ______

24 HOUR EMERGENCY PHONE - 800-922-8026

Bill of Lading Template

Bill of Lading Short Form

Carrier: J.P. Noonan

Date: 10/11/2018

Bill of Lading #: 101018-3

PO #: 18-0315

Order #:

Shipper/Consignor: BASF Corporation; 180 Mill St.; Cranston, RI 02905

Consignee: GlobalCycle; 700 Richmond St.; Taunton, MA 02718

Instructions: 3rd Load of Project
1st load of day

Item Code	Details	Quantity	Weight (Unit)
B-300-001	Non-DOT/Non-RCRA Regulated Groundwater	9000	G
	Wastewater for Recycle		
	PH-8.1 Vis OK		
	Profile# B-300-001		
	Plate# 46 (MA)		
	Total		

Terms: Prepaid [ ] Collect [ ] Other [X]

Carrier: Pick Up Date: 10/11/18 Signature: X

Carrier acknowledges receipt of packages and that they are properly described as above and are in good order except as noted.

Shipper: Pick Up Date: 10/11/18 Signature: As Auth Agent for BASF

This section is to make it sure that all materials are properly classified, described, packaged, marked and labeled and are in good condition to be transported and according to the applicable regulations of transporting department.

Received in Apparent Good Order

Received By: (Signatures)

Print Name Here: Jerckud Fernandes Date: 10/11/18

Global Cycle Inc.

700 Richmond Street
East Taunton, MA 02718

Invoice

Date	Invoice #
10/19/2018	2800

Bill To
Strategic Environmental Attn: Accounts Payable 362 Putnam Hill Road Sutton, MA 01590

P.O. No.	Terms	Project
18-0315	Net 30	

Quantity	Description	Rate	Amount
	WASTEWATER RECYCLING SERVICES		
	site: BASF 180 Mill Street Cranston, RI		
	Thursday, October 18, 2018		
7,850	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		
7,800	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		

Total

GLOBAL REMEDIATION
STRAIGHT BILL OF LADING
ORIGINAL – NOT NEGOTIABLE

PAGE 1 OF 1
BOL NO 20181018-01
DATE 10-18-18

R11/V#2

TRANSPORTER	US EPA ID Number	Phone
Global Remediation Services, Inc. 700 Richmond Street East Taunton, MA 02718-1514	MAD300012303	508-828-1005
GENERATOR	**US EPA ID Number**	**Phone**
BASF Corporation 180 Mill Street Cranston, RI 02905	N/A	774-276-1480
FACILITY	**US EPA ID Number**	**Phone**
Globalcycle, Inc 700 Richmond Street East Taunton, MA 02718	N/A	508-828-1005

HM	Description of Articles or Proper Shipping Name	Containers		Total Quantity	Unit Wt / Vol
		No.	Type		
	Non-DOT / Non-RCRA Regulated Material (boat wash water) Globalcycle Approval # C-300-001 Profile#	001	TT	7850	G
	PH-7.6 Vis-OK				
	Plate # 83949 MA.				

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

	Signature	Print Name	Date
GENERATOR	X Charles F. McCarthy IV	Charles F. McCarthy	10-18-18
TRANSPORTER	Michael J. Raposa	Michael Raposa	10-18-18
FACILITY	[signature]	Jordan Fernandes	10-18-18

Emergency Response Telephone Number: 508-828-1005

Monitored at all times the Hazardous Materials is in transportation including storage incidental to transportation (172.604)

Bill of Lading Short Form

Carrier: ~~J.P. Noonan~~ Global
Bill of Lading #: [redacted] 101818-1
Date: 10/18/2018
PO #: 18-0315
Order #:
Shipper/Consignor: BASF Corporation; 180 Mill St.; Cranston, RI 02905

Consignee: GlobalCycle; 700 Richmond St.; Taunton, MA 02718

Instructions:

Item Code	Details	Quantity	Weight (Unit)
B-300-001	Non-DOT/Non-RCRA Regulated Groundwater		G
	Wastewater for Recycle		
	Total		

Terms: Prepaid [ ] Collect [ ] Other [ ]

Carrier: Pick Up Date: 10/18/18 Signature: X Michael J. Rapoza

Carrier acknowledges receipt of packages and that they are properly described as above and are in good order except as noted.

Shipper: Pick Up Date: 10/18/18 Signature:

This section is to make it sure that all materials are properly classified, described, packaged, marked and labeled and are in good condition to be transported and according to the applicable regulations of transporting department.

Received in Apparent Good Order

Received By: _____ *(Signatures)*
Print Name Here: _____ Date: _____

GLOBAL REMEDIATION
STRAIGHT BILL OF LADING
ORIGINAL – NOT NEGOTIABLE

PAGE 1 OF 1
BOL NO.
DATE: 10-18-18

	US EPA ID Number	Phone
TRANSPORTER Global Remediation Services, Inc. 700 Richmond Street East Taunton, MA 02718-1514	[illegible]	[illegible]
GENERATOR BASF Corporation 180 Mill Street Cranston, RI 02905	N/A	[illegible]
FACILITY Globalcycle, Inc. 700 Richmond Street East Taunton, MA 02718	N/A	508-828-1005

HM	Description of Articles or Proper Shipping Name	Containers No.	Containers Type	Total Quantity	Unit Wt / Vol
	Non-DOT / Non-RCRA Regulated Material (boat wash water) Globalcycle Approval # C-300-001 Profile#	001	TT	7800	G
	PH-7.6 Vis-OK				
	Plate #83949 MA-				

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

	Signature	Print Name	Date
GENERATOR	X Charles F. McCarthy III SCS	Charles F. McCarthy III	10-18-18
TRANSPORTER	Michael D. Raposa	Michael Raposa	10-18-18
FACILITY	[signature]	Jordan Fernandes	10-18-18

Emergency Response Telephone Number: 508-828-1005

Monitored at all times the Hazardous Material is in transportation including storage to transportation [illegible]

Bill of Lading Template

Bill of Lading Short Form

Carrier: ~~J.P. Noonan~~ Global

Bill of Lading #: [redacted] 101818-2

Order #:

Date: 10/18/2018

PO #: 18-0315

Shipper/Consignor: BASF Corporation; 180 Mill St.; Cranston, RI 02905

Consignee: GlobalCycle; 700 Richmond St.; Taunton, MA 02718

Instructions:

Item Code	Details	Quantity	Weight (Unit)
B-300-001	Non-DOT/Non-RCRA Regulated Groundwater		G
	Wastewater for Recycle		
	Total		

Terms: Prepaid ☐ Collect ☐ Other ☐

Shipper

~~Carrier~~: Pick Up Date: 10/18/18

ACT 10/18/18 CF

Signature: As Auth Agent for BASF

Carrier acknowledges receipt of packages and that they are properly described as above and are in good order except as noted.

Carrier

~~Shipper~~: Pick Up Date: _____

Signature: Michelle J. Roper

This section is to make it sure that all materials are properly classified, described, packaged, marked and labeled and are in good condition to be transported and according to the applicable regulations of transporting department.

Received in Apparent Good Order

Received By: _____ (Signatures)

Print Name Here: _____ Date: _____

Global Cycle Inc.

700 Richmond Street
East Taunton, MA 02718

Invoice

Date	Invoice #
11/12/2018	2878

Bill To
Strategic Environmental Attn: Accounts Payable 362 Putnam Hill Road Sutton, MA 01590

P.O. No.	Terms	Project
18-0315	Net 30	

Quantity	Description	Rate	Amount
	WASTEWATER RECYCLING SERVICES		
	site: BASF 180 Mill Street Cranston, RI		
	Thursday, November 1, 2018		
8,100	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		
	Friday, November 2, 2018		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		
	Monday, November 5, 2018		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		
	Tuesday, November 6, 2018		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		
	Friday, November 9, 2018		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		

	Total

GLOBAL REMEDIATION
STRAIGHT BILL OF LADING
ORIGINAL – NOT NEGOTIABLE

PAGE 1 OF 1
BOL NO. 20181101-02
DATE 11-1-18

R11/Ut2

TRANSPORTER	US EPA ID Number	Phone
Global Remediation Services, Inc 700 Richmond Street East Taunton, MA 02718-1511	MAC300012901	[illegible]
GENERATOR	**US EPA ID Number**	**Phone**
BASF Corporation 180 Mill Street Cranston, RI 02905	N/A	774-276-1450
FACILITY	**US EPA ID Number**	**Phone**
Globalcycle, Inc 700 Richmond Street East Taunton, MA 02718	N/A	508-828-1005

HM	Description of Articles or Proper Shipping Name	Containers No.	Containers Type	Total Quantity	Unit Wt / Vol
	Non-DOT / Non-RCRA Regulated Material (groundwater) Globalcycle Approval # G-300-001 profile #	001	TT	8100	G
	PH-7.4 Vis-OK				
	Plate # 83949 MA.				

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

	Signature	Print Name	Date
GENERATOR	X [signature] SES [signature]	B Ruiz	11-1-18
TRANSPORTER	Michael G. Raposa	Michael RAPOSA	11-1-18
FACILITY	[signature]	Jordan Fernandes	11-1-18

Emergency Response Telephone Number: 508-828-1005

Monitored at all times the hazardous materials is in transportation including storage incidental to transportation (§172.604)

Bill of Lading Template

Bill of Lading Short Form

Carrier: ~~J.P. Noonan~~ Global Remediation
Bill of Lading #: 11012018-2
Order #:
Date: 11-1-18
PO #: 18-0315
Shipper/Consignor: BASF Corporation; 180 Mill St.; Cranston, RI 02905
Consignee: GlobalCycle; 700 Richmond St.; Taunton, MA 02718
Instructions:

Item Code	Details	Quantity	Weight (Unit)
B-300-001	Non-DOT/Non-RCRA Regulated Groundwater	8100	G
	Wastewater for Recycle		
	Total		

Terms: Prepaid [ ] Collect [ ] Other [ ]

Carrier: Pick Up Date: Thur 11-1-18 Signature: Michael D. Rapoza

Carrier acknowledges receipt of packages and that they are properly described as above and are in good order except as noted.

Shipper: Pick Up Date: 11/1/18 Signature:

This section is to make it sure that all materials are properly classified, described, packaged, marked and labeled and are in good condition to be transported and according to the applicable regulations of transporting department.

Received in Apparent Good Order

Received By: _____ *(Signatures)*
Print Name Here: _____ Date: _____

☒ CAPE COD CARTAGE ☐ RUTLAND
☐ DANIELSON ☐ SPRINGFIELD
☐ HOOKSETT ☐ WEST BRIDGEWATER

J. P. NOONAN
TRANSPORTATION, INC.
415 WEST STREET P.O. BOX400
WEST BRIDGEWATER, MA 02379

DATE: 11-1-18

LOAD NUMBER: 2886491
BILL OF LADING NUMBER:

BILL TO: Global Cycle

SHIPPED FROM: BAST, Cranston, RI 180 Mill St.

DELIVERED TO: Global Cycle - Taunton 700 Richmond St.

DESCRIPTION	RATE	TOTAL
Wastewater		9,000 gal

PH-7.9 VIS OK plate #96(MA) Profile #B-300-001

FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT ____ FT. ____ IN.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

RECEIVED PAYMENT $

CHECK NUMBER

TRACTOR NO.: 629 | TRAILER NO.: DK1312 | DRIVER: David Fuchs | NUMBER

DELAY LOADING | TIME IN | TIME OUT

REASON FOR DELAY LOADING

DELAY UNLOADING | TIME IN | TIME OUT

REASON FOR DELAY UNLOADING

RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SATISFACTORY

RECEIVER SIGNATURE _____

SIGNATURE FOR CERTIFICATION OF DELAY TIME

PTO PUMP TIME HRS. _____ MIN. _____

SHIPPER _____

I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.
Customer Signature _____

CONSIGNEE _____

24 HOUR EMERGENCY PHONE - 800-922-8026

Bill of Lading Template

Bill of Lading Short Form

Carrier: J.P. Noonan
Bill of Lading #: 11012018 - 1
Order #:
Shipper/Consignor: BASF Corporation; 180 Mill St.; Cranston, RI 02905
Consignee: GlobalCycle; 700 Richmond St.; Taunton, MA 02718
Instructions:

Date: 11/1/18
PO #: 18-0315

Item Code	Details	Quantity	Weight (Unit)
B-300-001	Non-DOT/Non-RCRA Regulated Groundwater		G
	Wastewater for Recycle	9000	9000 Gallons
	Total		

Terms: Prepaid [ ] Collect [ ] Other [ ]

Carrier: Pick Up Date: 11-1-18 Signature

Carrier acknowledges receipt of packages and that they are properly described as above and are "good order" except as noted

Shipper: Pick Up Date: 11/1/18 Signature

This section is to make it sure that all materials are properly classified, described, packaged, marked and labeled and are in good condition to be transported and according to the applicable regulations of transporting department

---

Received in Apparent Good Order

Received By: Kyle Kennedy (Signatures)
Print Name Here: [illegible] Date: 11/1/18

☒ CAPE COD CARTAGE ☐ RUTLAND
☐ DANIELSON ☐ SPRINGFIELD
☐ HOOKSETT ☐ WEST BRIDGEWATER

J. P. NOONAN
TRANSPORTATION, INC.
415 WEST STREET P.O. BOX400
WEST BRIDGEWATER, MA 02379

DATE: 11-2-18

LOAD NUMBER: 2887116

BILL OF LADING NUMBER:

BILL TO: Global Cycle

DELIVERED TO:

SHIPPED FROM: BASF Cranston, RI 180 Mill St.

Global Cycle E. Taunton 700 Richmond St.

DESCRIPTION	RATE	TOTAL
Wastewater		9000 gal
PH 8.0 Vis ok plate #96 (MA) Profile # B-300-001		

FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT ______ FT. ______ IN.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

RECEIVED PAYMENT	CHECK NUMBER
$	

TRACTOR NO.	TRAILER NO.	DRIVER	NUMBER
629	5TK1312	David Fuchs	

DELAY LOADING	TIME IN	TIME OUT
REASON FOR DELAY LOADING		
DELAY UNLOADING	TIME IN	TIME OUT
REASON FOR DELAY UNLOADING		

RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SATISFACTORY

RECEIVER SIGNATURE [signature]

SIGNATURE FOR CERTIFICATION OF DELAY TIME

PTO PUMP TIME HRS.______ MIN.______

SHIPPER [signature]

I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.
Customer Signature ______

CONSIGNEE ______

24 HOUR EMERGENCY PHONE - 800-922-8026

Bill of Lading Template

Bill of Lading Short Form

Carrier: J.P. Noonan
Bill of Lading #: 101018-1
Order #:
Shipper/Consignor: BASF Corporation; 180 Mill St.; Cranston, RI 02905
Consignee: GlobalCycle; 700 Richmond St.; Taunton, MA 02718
Instructions:

Date: 11/2
PO #: 18-0315

Item Code	Details	Quantity	Weight (Unit)
B-300-001	Non-DOT/Non-RCRA Regulated Groundwater	9000	G
	Wastewater for Recycle		
	PH-8.0 Vis-OK		
	Plate # (MA) 96		
	Profile # C-300-001		
	Total		

Terms: Prepaid [ ] Collect [ ] Other [ ]

Carrier: Pick Up Date: 11-2-18 Signature:

Carrier acknowledges receipt of packages and that they are properly described as above and are in good order except as noted.

Shipper: Pick Up Date: 11/2 Signature:

This section is to make it sure that all materials are properly classified, described, packaged, marked and labeled and are in good condition to be transported and according to the applicable regulations of transporting department.

Received in Apparent Good Order

Received By: (Signatures)
Print Name Here: Kyle Kennedy Date: 11/2/18

- [x] CAPE COD CARTAGE
- [ ] DANIELSON
- [ ] HOOKSETT
- [ ] RUTLAND
- [ ] SPRINGFIELD
- [ ] WEST BRIDGEWATER

J. P. NOONAN

TRANSPORTATION, INC.
415 WEST STREET P.O. BOX400
WEST BRIDGEWATER, MA 02379

DATE: 11-5-18

LOAD NUMBER: 2887465

BILL OF LADING NUMBER:

BILL TO: Global Cycle

DELIVERED TO:

SHIPPED FROM:
BASF Cranston, RI
180 Mill st.

Global Cycle Taunton
700 Richmond St.

DESCRIPTION	RATE	TOTAL
Wastewater		9,000 gal
PH-7.2 Vis-OK Plat=#96(MA) Profile# B-300-001		

FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT ________ FT. ________ IN.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

RECEIVED PAYMENT $

CHECK NUMBER

TRACTOR NO.	TRAILER NO.	DRIVER	NUMBER
629	TK1312	David Fuchs	

DELAY LOADING	TIME IN	TIME OUT

REASON FOR DELAY LOADING

DELAY UNLOADING	TIME IN	TIME OUT

REASON FOR DELAY UNLOADING

RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SATISFACTORY

RECEIVER SIGNATURE ________ [signature]

SIGNATURE FOR CERTIFICATION OF DELAY TIME

PTO PUMP TIME ________ HRS. ________ MIN.

SHIPPER ________ [signature]

I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.
Customer Signature ________

CONSIGNEE ________

24 HOUR EMERGENCY PHONE - 800-922-8026

Bill of Lading Template

Bill of Lading Short Form

Carrier: J.P. Noonan
Bill of Lading #: ~~101018-2~~ 11052018
Order #:
Date:
PO #: 18-0315
Shipper/Consignor: BASF Corporation; 180 Mill St.; Cranston, RI 02905
Consignee: GlobalCycle; 700 Richmond St.; Taunton, MA 02718
Instructions:

Item Code	Details	Quantity	Weight (Unit)
B-300-001	Non-DOT/Non-RCRA Regulated Groundwater	9000	G
	Wastewater for Recycle		
	PH-7.2 Vis-OK		
	Plate# 96(MA)		
	Total		

Terms: Prepaid [ ] Collect [ ] Other [ ]

Carrier: Pick Up Date: 11-5-18 Signature: [signature]

Carrier acknowledges receipt of packages and that they are properly described as above and are in good order except as noted.

Shipper: Pick Up Date: 11/5/18 Signature: [signature]

This section is to make it sure that all materials are properly classified, described, packaged, marked and labeled and are in good condition to be transported and according to the applicable regulations of transporting department.

Received in Apparent Good Order

Received By: [signature] (Signatures)
Print Name Here: Kyle Kennedy Date: 11/5/18

J. P. NOONAN
TRANSPORTATION, INC.
415 WEST STREET P.O. BOX400
WEST BRIDGEWATER, MA 02379

- [x] CAPE COD CARTAGE
- [ ] RUTLAND
- [ ] DANIELSON
- [ ] SPRINGFIELD
- [ ] HOOKSETT
- [ ] WEST BRIDGEWATER

LOAD NUMBER: 2887467

BILL OF LADING NUMBER:

DATE: 11-5-18

BILL TO: Global Cycle

DELIVERED TO: Global Cycle E Taunton, 700 Richmond St.

SHIPPED FROM: BASF Cranston, RI, 180 Mill St.

DESCRIPTION	RATE	TOTAL
Wastewater		9,000 gal
PH 8.0 VIS-OK plate#96(MA) Profile#B-300-001		

FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT ______ FT. ______ IN.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

RECEIVED PAYMENT $

CHECK NUMBER

TRACTOR NO.	TRAILER NO.	DRIVER	NUMBER
629	TK1312	David Fuchs	

DELAY LOADING	TIME IN	TIME OUT

REASON FOR DELAY LOADING

DELAY UNLOADING	TIME IN	TIME OUT

REASON FOR DELAY UNLOADING

RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SATISFACTORY

RECEIVER SIGNATURE [signature]

SIGNATURE FOR CERTIFICATION OF DELAY TIME

PTO PUMP TIME ______ HRS. ______ MIN.

SHIPPER [signature]

I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.
Customer Signature ______

CONSIGNEE ______

24 HOUR EMERGENCY PHONE - 800-922-8026

Bill of Lading Template

Bill of Lading Short Form

Date with load #

Carrier: J.P. Noonan
Bill of Lading #: 11052018 - 1
Order #:
Date: 11/5/18
PO #: 18-0315
Shipper/Consignor: BASF Corporation; 180 Mill St.; Cranston, RI 02905
Consignee: GlobalCycle; 700 Richmond St.; Taunton, MA 02718
Instructions:

Item Code	Details	Quantity	Weight (Unit)
B-300-001	Non-DOT/Non-RCRA Regulated Groundwater	9,000	G
	Wastewater for Recycle		
	pH- 8.0 Vis=OK		
	Plate #96 (MA) Profile #C-300-001		
	Total		

Terms: Prepaid [ ] Collect [ ] Other [ ]

Transporter

Carrier: Pick Up Date: 11-5-18 Signature

Carrier acknowledges receipt of packages and that they are properly described as above and are in good order except as noted

SES →

Shipper: Pick Up Date: 11/5/18 Signature

This section is to make it sure that all materials are properly classified described packaged marked and labeled and are in good condition to be transported and according to the applicable regulations of transporting department

Received in Apparent Good Order

Received By: (Signatures)
Print Name Here: Kyle Kennedy Date: 11/5/18

[X] CAPE COD CARTAGE [ ] RUTLAND
[ ] DANIELSON [ ] SPRINGFIELD
[ ] HOOKSETT [ ] WEST BRIDGEWATER

J. P. NOONAN
TRANSPORTATION, INC.
415 WEST STREET P.O. BOX400
WEST BRIDGEWATER, MA 02379

DATE: 11-6-18

LOAD NUMBER: 2888772

BILL OF LADING NUMBER:

BILL TO: Global Cycle

SHIPPED FROM: BASF Cranston, RI 180 Mill St.

DELIVERED TO: Global Cycle E Taunton 700 Richmond St.

DESCRIPTION	RATE	TOTAL
Wastewater		9000 gal
Plate# 9(MA) PH-7.7 Vis-OK (EK) Profile# B-300-001		

FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT ________ FT. ________ IN.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

RECEIVED PAYMENT	CHECK NUMBER
$	

TRACTOR NO.	TRAILER NO.	DRIVER	NUMBER
629	37KB12	David Fuchs	

DELAY LOADING	TIME IN	TIME OUT

REASON FOR DELAY LOADING

DELAY UNLOADING	TIME IN	TIME OUT

REASON FOR DELAY UNLOADING

RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SATISFACTORY

RECEIVER SIGNATURE [signature]

SIGNATURE FOR CERTIFICATION OF DELAY TIME

PTO PUMP TIME HRS.________ MIN.________

I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.
Customer Signature ________

SHIPPER X [signature]

CONSIGNEE ________

24 HOUR EMERGENCY PHONE - 800-922-8026

- [x] CAPE COD CARTAGE
- [ ] RUTLAND
- [ ] DANIELSON
- [ ] SPRINGFIELD
- [ ] HOOKSETT
- [ ] WEST BRIDGEWATER

J. P. NOONAN
TRANSPORTATION, INC.
415 WEST STREET P.O. BOX400
WEST BRIDGEWATER, MA 02379

LOAD NUMBER: 3890116

DATE: 11-9-18

BILL OF LADING NUMBER:

BILL TO: GlobalCycle

DELIVERED TO: GlobalCycle E Taunton, 700 Richmond St

SHIPPED FROM: BASF Cranston, RI, 180 Mill St

DESCRIPTION	RATE	TOTAL
Wastewater		9,000 gal
PH 7.1 vis ok plate # 96 (n/a) Profile # B-300001		

FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT ________ FT. ________ IN.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

RECEIVED PAYMENT $ | CHECK NUMBER

TRACTOR NO.	TRAILER NO.	DRIVER	NUMBER
629	TK-136	David Fuchs	

	TIME IN	TIME OUT
DELAY LOADING		
REASON FOR DELAY LOADING		
DELAY UNLOADING		
REASON FOR DELAY UNLOADING		

RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SATISFACTORY

RECEIVER SIGNATURE [signature]

PTO PUMP TIME HRS.________ MIN.________

I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.
Customer Signature ________

SIGNATURE FOR CERTIFICATION OF DELAY TIME

SHIPPER [signature]

CONSIGNEE

24 HOUR EMERGENCY PHONE - 800-922-8026

Global Cycle Inc.

700 Richmond Street
East Taunton, MA 02718

Invoice

Date	Invoice #
11/21/2018	2898

Bill To
Strategic Environmental Attn: Accounts Payable 362 Putnam Hill Road Sutton, MA 01590

P.O. No.	Terms	Project
18-0315	Net 30	

Quantity	Description	Rate	Amount
	WASTEWATER RECYCLING SERVICES		
	site: BASF 180 Mill Street Cranston, RI		
	Monday, November 12, 2018		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		
	Wednesday, November 14, 2018		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		
	Friday, November 16, 2018		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		

Total

☒ CAPE COD CARTAGE ☐ RUTLAND
☐ DANIELSON ☐ SPRINGFIELD
☐ HOOKSETT ☐ WEST BRIDGEWATER

J. P. NOONAN
TRANSPORTATION, INC.
415 WEST STREET P.O. BOX400
WEST BRIDGEWATER, MA 02379

DATE: 11-12-18

LOAD NUMBER: 2890508

BILL OF LADING NUMBER:

BILL TO: Global Cycle

SHIPPED FROM: BASF Cranston, RI 180 Mill St.

DELIVERED TO: Global Cycle E Taunton 700 Richmond St

DESCRIPTION	RATE	TOTAL
Wastewater		9000 gal
7H 7.9 vis-ok plate#96(MA) Profile# 8300.001		

FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT ______ FT. ______ IN.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

RECEIVED PAYMENT $ | CHECK NUMBER

TRACTOR NO.	TRAILER NO.	DRIVER	NUMBER
6029	TK1312	Dave Hicks	

DELAY LOADING	TIME IN	TIME OUT

REASON FOR DELAY LOADING

DELAY UNLOADING	TIME IN	TIME OUT

REASON FOR DELAY UNLOADING

RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SATISFACTORY

RECEIVER SIGNATURE [signature]

SIGNATURE FOR CERTIFICATION OF DELAY TIME

PTO PUMP TIME HRS.______ MIN.______

SHIPPER [signature]

I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.
Customer Signature ______

CONSIGNEE ______

24 HOUR EMERGENCY PHONE - 800-922-8026

☒ CAPE COD CARTAGE ☐ RUTLAND
☐ DANIELSON ☐ SPRINGFIELD
☐ HOOKSETT ☐ WEST BRIDGEWATER

J. P. NOONAN
TRANSPORTATION, INC.
415 WEST STREET P.O. BOX400
WEST BRIDGEWATER, MA 02379

LOAD NUMBER: 2890118
BILL OF LADING NUMBER:

DATE: 11-12-18

BILL TO: Global Circle

SHIPPED FROM: BAST Cranston RI
180 Mill St.

DELIVERED TO: Global Circle E Taunton
700 Richmond St.

DESCRIPTION	RATE	TOTAL
Wastewater		9,000 gal

DH71 VIS-OK plate #916(MA) Trailer #B-300-001

FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT _____ FT. _____ IN.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

RECEIVED PAYMENT $

CHECK NUMBER

TRACTOR NO.	TRAILER NO.	DRIVER	NUMBER
629	DH71	David Fuchs	

RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SATISFACTORY

RECEIVER SIGNATURE X

PTO PUMP TIME HRS. _____ MIN. _____

I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.
Customer Signature _____

DELAY LOADING	TIME IN	TIME OUT
REASON FOR DELAY LOADING		

DELAY UNLOADING	TIME IN	TIME OUT
REASON FOR DELAY UNLOADING		

SIGNATURE FOR CERTIFICATION OF DELAY TIME

SHIPPER X

CONSIGNEE _____

24 HOUR EMERGENCY PHONE - 800-922-8026

[X] CAPE COD CARTAGE [ ] RUTLAND
[ ] DANIELSON [ ] SPRINGFIELD
[ ] HOOKSETT [ ] WEST BRIDGEWATER

J. P. NOONAN
TRANSPORTATION, INC.
415 WEST STREET P.O. BOX400
WEST BRIDGEWATER, MA 02379

DATE: 11-14-18

LOAD NUMBER: 2891949

BILL OF LADING NUMBER:

BILL TO: Global Cycle

SHIPPED FROM: BASF Cranston, RI 180 Mill St.

DELIVERED TO: Global Cycle E. Taunton 700 Richmond St.

DESCRIPTION	RATE	TOTAL
Wastewater		9,000 gal
PH 8.8 vis OK plate #96 (MA) Profile # B-300-001		

FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT ________ FT. ________ IN.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

RECEIVED PAYMENT $ | CHECK NUMBER

TRACTOR NO.	TRAILER NO.	DRIVER	NUMBER
629	TK1312	David Fuchs	

RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SATISFACTORY

RECEIVER SIGNATURE [signature]

PTO PUMP TIME ______ HRS. ______ MIN.

I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.
Customer Signature ________

DELAY LOADING	TIME IN	TIME OUT
REASON FOR DELAY LOADING		

DELAY UNLOADING	TIME IN	TIME OUT
REASON FOR DELAY UNLOADING		

SIGNATURE FOR CERTIFICATION OF DELAY TIME

SHIPPER [signature]

CONSIGNEE ________

24 HOUR EMERGENCY PHONE - 800-922-8026

☒ CAPE COD CARTAGE ☐ RUTLAND
☐ DANIELSON ☐ SPRINGFIELD
☐ HOOKSETT ☐ WEST BRIDGEWATER

J. P. NOONAN
TRANSPORTATION, INC.
415 WEST STREET P.O. BOX400
WEST BRIDGEWATER, MA 02379

DATE: 11-14-18

LOAD NUMBER: 2891957

BILL OF LADING NUMBER:

BILL TO: GlobalCycle

SHIPPED FROM: BASF Cranston, RI 180 Mill St.

DELIVERED TO: GlobalCycle E Taunton 700 Richmond St.

DESCRIPTION	RATE	TOTAL
Wastewater		9,000 gal
DII 82 visc ok plate # 96 (MA) Profile # B-300-001		

FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT ________ FT. ________ IN.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

RECEIVED PAYMENT $ | CHECK NUMBER

TRACTOR NO.	TRAILER NO.	DRIVER	NUMBER
629	TK-1312	David Fuchs	

RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SATISFACTORY

RECEIVER SIGNATURE [signature]

PTO PUMP TIME HRS.________ MIN.________

I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.
Customer Signature ________

DELAY LOADING	TIME IN	TIME OUT

REASON FOR DELAY LOADING

DELAY UNLOADING	TIME IN	TIME OUT

REASON FOR DELAY UNLOADING

SIGNATURE FOR CERTIFICATION OF DELAY TIME

SHIPPER [signature]

CONSIGNEE ________

24 HOUR EMERGENCY PHONE - 800-922-8026

[X] CAPE COD CARTAGE [ ] RUTLAND
[ ] DANIELSON [ ] SPRINGFIELD
[ ] HOOKSETT [ ] WEST BRIDGEWATER

J. P. NOONAN
TRANSPORTATION, INC.
415 WEST STREET P.O. BOX400
WEST BRIDGEWATER, MA 02379

DATE: 11-16-18

LOAD NUMBER: 2892898

BILL OF LADING NUMBER:

BILL TO: Global Cycle

DELIVERED TO:

SHIPPED FROM: BASF Cranston, RI 180 Mill St.

Global Cycle E Taunton 700 Richmond St.

DESCRIPTION	RATE	TOTAL
Wastewater		9000 gal
PH 8.1 VIS-OK plate #96 (MA) Profile # B300-001		

FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT ______ FT. ______ IN.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

RECEIVED PAYMENT $

CHECK NUMBER

TRACTOR NO.	TRAILER NO.	DRIVER	NUMBER
629	TK1312	David Fuchs	

DELAY LOADING	TIME IN	TIME OUT

REASON FOR DELAY LOADING

DELAY UNLOADING	TIME IN	TIME OUT

REASON FOR DELAY UNLOADING

RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SATISFACTORY

RECEIVER SIGNATURE X [signature]

SIGNATURE FOR CERTIFICATION OF DELAY TIME

PTO PUMP TIME HRS.______ MIN.______

SHIPPER X [signature]

I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.
Customer Signature ______

CONSIGNEE ______

24 HOUR EMERGENCY PHONE - 800-922-8026

Global Cycle Inc.

700 Richmond Street
East Taunton, MA 02718

Invoice

Date	Invoice #
11/30/2018	2921

Bill To
Strategic Environmental Attn: Accounts Payable 362 Putnam Hill Road Sutton, MA 01590

P.O. No.	Terms	Project
18-0315	Net 30	

Quantity	Description	Rate	Amount
	WASTEWATER RECYCLING SERVICES		
	site: BASF 180 Mill Street Cranston, RI		
	Wednesday, November 21, 2018		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		
		Total	

☒ CAPE COD CARTAGE ☐ RUTLAND
☐ DANIELSON ☐ SPRINGFIELD
☐ HOOKSETT ☐ WEST BRIDGEWATER

J. P. NOONAN
TRANSPORTATION, INC.
415 WEST STREET P.O. BOX400
WEST BRIDGEWATER, MA 02379

LOAD NUMBER: 3895057
DATE: 11-21-18
BILL OF LADING NUMBER:

BILL TO: Global Cycle
SHIPPED FROM: B151 Cranston, RI 180 Mill St.
DELIVERED TO: Global Cycle I. Taunton 700 Richmond St.

DESCRIPTION	RATE	TOTAL
Wastewater		9,000 gal

PH 8.6 vis ok plate #96(MA) Profile #B-300-001

FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT _____ FT. _____ IN.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

RECEIVED PAYMENT $

CHECK NUMBER

TRACTOR NO. 629 | TRAILER NO. TKN132 | DRIVER David Fuchs | NUMBER

DELAY LOADING | TIME IN | TIME OUT

REASON FOR DELAY LOADING

DELAY UNLOADING | TIME IN | TIME OUT

REASON FOR DELAY UNLOADING

RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SATISFACTORY

RECEIVER SIGNATURE

SIGNATURE FOR CERTIFICATION OF DELAY TIME

PTO PUMP TIME HRS. _____ MIN. _____

I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.
Customer Signature _____

SHIPPER

CONSIGNEE

24 HOUR EMERGENCY PHONE - 800-922-8026

Global Cycle Inc.

700 Richmond Street
East Taunton, MA 02718

Invoice

Date	Invoice #
12/26/2018	3000

Bill To
Strategic Environmental Attn: Accounts Payable 362 Putnam Hill Road Sutton, MA 01590

P.O. No.	Terms	Project
18-0315	Net 30	

Quantity	Description	Rate	Amount
	WASTEWATER RECYCLING SERVICES		
	site: BASF 180 Mill Street Cranston, RI		
	Wednesday, December 19, 2018		
4,500	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		
		Total	

☒ CAPE COD CARTAGE ☐ RUTLAND
☐ DANIELSON ☐ SPRINGFIELD
☐ HOOKSETT ☐ WEST BRIDGEWATER

J. P. NOONAN
TRANSPORTATION, INC.
415 WEST STREET P.O. BOX400
WEST BRIDGEWATER, MA 02379

LOAD NUMBER: 2907841
DATE: 12-19-18
BILL OF LADING NUMBER:

BILL TO: Global Cycle
SHIPPED FROM: BAST Cranston, RI 180 Mill St.
DELIVERED TO: Global Cycle Taunton 700 Richmond St.

DESCRIPTION	RATE	TOTAL
Wastewater		4,500gal

PH 8.4 vis-ok plate #96(ms) Profile # B-300-001

FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT ____ FT. ____ IN.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

RECEIVED PAYMENT $

CHECK NUMBER

TRACTOR NO. 609 | TRAILER NO. STK1312 | DRIVER David Fuchs | NUMBER

RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SATISFACTORY

RECEIVER SIGNATURE

PTO PUMP TIME HRS. ____ MIN. ____

I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.
Customer Signature

DELAY LOADING	TIME IN	TIME OUT
REASON FOR DELAY LOADING		
DELAY UNLOADING	TIME IN	TIME OUT
REASON FOR DELAY UNLOADING		

SIGNATURE FOR CERTIFICATION OF DELAY TIME

SHIPPER

CONSIGNEE

24 HOUR EMERGENCY PHONE - 800-922-8026

APPENDIX H

Data Validation Reports (on CD)

ESS Laboratory – Laboratory Work Order Number **1808388**; Report Issued **October 5, 2018**
Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
B-864-081518 1 ft	8/15/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808388-01	☒ PCB (8082A)
B-865-081518 1 ft	8/15/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808388-02	☒ PCB (8082A)
B-866-081518 1 ft	8/15/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808388-03	☒ PCB (8082A)
B-867-081518 1 ft	8/15/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808388-04	☒ PCB (8082A)
B-868-081518 1 ft	8/15/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808388-05	☒ PCB (8082A)
B-869-081518 1 ft	8/15/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808388-06	☒ PCB (8082A)
B-870-081518 1 ft	8/15/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808388-07	☒ PCB (8082A)
B-871-081518 1 ft	8/15/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808388-08	☒ PCB (8082A)
B-873-081518 1 ft	8/15/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808388-09	☒ PCB (8082A)
B-874-081518 1 ft	8/15/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808388-10	☒ PCB (8082A)
B-875-081518 1 ft	8/15/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808388-11	☒ PCB (8082A)
B-877-081518 1 ft	8/15/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808388-12	☒ PCB (8082A)
B-878-081518 1 ft	8/15/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808388-13	☒ PCB (8082A)
B-879-081518 1 ft	8/15/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808388-14	☒ PCB (8082A)
B-615-081518 3 ft	8/15/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808388-15	☒ PCB (8082A)
B-615-081518 3 ft	8/15/2018	☒ Soil ☐ Concrete	☐ FD ☒ MS/MSD ☐ EB ☐ TB	1808388-15	☒ PCB (8082A)
B-615-081518-1 3 ft	8/15/2018	☒ Soil ☐ Concrete	☒ FD ☐ MS/MSD ☐ EB ☐ TB	1808388-16	☒ PCB (8082A)
SW-408-081518 0-3ft	8/15/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808388-17	☒ PCB (8082A)

Analytical data were evaluated for the following criteria:

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Data completeness
☒	☐	☐	Holding times/Sample preservation
☒	☐	☐	Surrogate recoveries – Surrogate recoveries for samples 04, 07, 08, 11, and 13 primary runs were diluted below MRL (no recoveries could be calculated for samples). No qualification indicated.

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
☒	☐	☐	Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)
☐	☒	☐	Laboratory duplicate RPDs (if performed)
☒	☐	☐	Field duplicate RPDs (if collected)
☒	☐	☐	Dual Column RPDs (pesticide and PCB aroclors only)
☒	☐	☐	Method blank results
☐	☒	☐	Field/equipment blank results (if collected)
☐	☒	☐	Trip blank results
☒	☐	☐	Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
☒	☐	☐	Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
☒	☐	☐	Sulfur Removal (pesticide and PCB aroclors only) – not performed/required for any sample in data set.
☒	☐	☐	Percent solids
☐	☒	☐	Mass spectrometer tuning (GC/MS only)
☐	☒	☐	Internal standard performance (GC/MS only)
☐	☒	☐	Interference check sample results (metals only)
☐	☒	☐	ICP serial dilution results (metals only)
☒	☐	☐	Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For samples 02, 03, 05, 06, 10, 12, and 14, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. For samples 04, 07, 08, 11, and 13, all results reported from diluted runs (all at 20x dilution), with RLs raised. RLs for all ND results below PALs (maximum of 1.1 mg/kg for PCBs in all 20x diluted samples; PAL = 25 mg/kg).

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator
AEI Consultants Environmental & Engineering Services

Table 1
Summary of Qualified Data
ESS Laboratory Report 1808388

Sample	Analysis	Compound	Original Result	Units	Data Validation-Based Result	Reason Code
None	None	No data qualifications				

mg/kg = milligrams per kilogram or parts per million (ppm)
Bold indicates detected final concentration
Reason codes are defined within Table 2.

Table 2
Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
TB	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808439**; Report Issued **October 5, 2018**
Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
B-635-081618 3ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808439-01	☒ PCB (8082A)
SW-433-081618 0-3ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808439-02	☒ PCB (8082A)
B-765-081618 3ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808439-03	☒ PCB (8082A)
SW-520-081618 0-3ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808439-04	☒ PCB (8082A)
SW-521-081618 0-3ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808439-05	☒ PCB (8082A)
SW-522-081618 0-3ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808439-06	☒ PCB (8082A)

Analytical data were evaluated for the following criteria:

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Data completeness
☒	☐	☐	Holding times/Sample preservation
☒	☐	☒	Surrogate recoveries - **Samples 02 & 03 DCB surrogate above QC limit for first column only. No impact on sample 02; results for Aroclor 1242 and 1254 for sample 03 considered estimates (J qualified).**
☒	☐	☐	Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
☒	☐	☒	Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample) – **MS/MSD not specifically requested, but performed on sample 06. MS and MSD recoveries for Aroclor 1016 above QC limit. Detected concentrations of Aroclor 1242 and Aroclor 1254 considered estimates (J qualified).**
☐	☒	☐	Laboratory duplicate RPDs (if performed)
☐	☒	☐	Field duplicate RPDs (if collected)
☒	☐	☐	Dual Column RPDs (pesticide and PCB aroclors only)
☒	☐	☐	Method blank results
☐	☒	☐	Field/equipment blank results (if collected)
☐	☒	☐	Trip blank results
☒	☐	☐	Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
☒	☐	☐	Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
☒	☐	☐	Percent solids
☐	☒	☐	Mass spectrometer tuning (GC/MS only)
☐	☒	☐	Internal standard performance (GC/MS only)
☐	☒	☐	Interference check sample results (metals only)
☐	☒	☐	ICP serial dilution results (metals only)
☒	☐	☐	Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For samples 01, 02, and 04, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. RLs for all ND results below Project Action Levels (PAL).

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator
AEI Consultants Environmental & Engineering Services

Table 1
Summary of Qualified Data
ESS Laboratory Report 1808439

Sample	Analysis	Compound	Original Result	Units	Data Validation-Based Result	Reason Code
SW-443-081618 0-3ft	PCBs	Aroclor 1242	0.1	mg/kg	**0.1 J**	SA
		Aroclor 1254	0.6	mg/kg	**0.6 J**	SA
SW-522-081618 0-3ft	PCBs	Aroclor 1242	0.2	mg/kg	**0.2 J**	AM
		Aroclor 1254	1.0	mg/kg	**1.0 J**	AM

mg/kg = milligrams per kilogram or parts per million (ppm)
Bold indicates detected final concentration
Reason codes are defined within Table 2.

Table 2
Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
TB	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808495**; Report Issued **October 5, 2018**
Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
B-880-081718-1ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808495-01	☒ PCB (8082A)
B-885-081718-1ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808495-02	☒ PCB (8082A)

Analytical data were evaluated for the following criteria:

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Data completeness
☒	☐	☐	Holding times/Sample preservation
☒	☐	☐	Surrogate recoveries
☒	☐	☐	Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
☐	☒	☐	Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)
☐	☒	☐	Laboratory duplicate RPDs (if performed)
☐	☒	☐	Field duplicate RPDs (if collected)
☒	☐	☒	Dual Column RPDs (pesticide and PCB aroclors only) – **Dual column RPD > 40% for sample 02 Aroclor 1252; result considered an estimate (J qualified)**
☒	☐	☐	Method blank results
☐	☒	☐	Field/equipment blank results (if collected)
☐	☒	☐	Trip blank results
☒	☐	☐	Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
☒	☐	☐	Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
☒	☐	☐	Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on either sample in data set.
☒	☐	☐	Percent solids
☐	☒	☐	Mass spectrometer tuning (GC/MS only)
☐	☒	☐	Internal standard performance (GC/MS only)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☐	☒	☐	Interference check sample results (metals only)
☐	☒	☐	ICP serial dilution results (metals only)
☒	☐	☐	Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For sample 02, only reporting limit raised was for a detected Aroclor. No impact on data sensitivity. RLs for all ND results below Project Action Levels (PAL).

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator
AEI Consultants Environmental & Engineering Services

Table 1
Summary of Qualified Data
ESS Laboratory Report 1808495

Sample	Analysis	Compound	Original Result	Units	Data Validation-Based Result	Reason Code
B-885-081718-1ft	PCBs	Aroclor 1242	0.2	mg/kg	**0.2 J**	DC

mg/kg = milligrams per kilogram or parts per million (ppm)
Bold indicates detected final concentration
Reason codes are defined within Table 2.

Table 2
Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
TB	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808508**; Report Issued **October 24, 2018**
Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
W-40 0.25-2ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-01	☒ PCB (8082A)
W-41 0.25-2ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☒ MS/MSD ☐ EB ☐ TB	1808510-02	☒ PCB (8082A)
W-42 0.25-2ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-03	☒ PCB (8082A)
W-43 0.1-2ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-04	☒ PCB (8082A)
W-44 0.25-2ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-05	☒ PCB (8082A)
W-46 0.25-2ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-06	☒ PCB (8082A)
W-1 0.25-2ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-07	☒ PCB (8082A)
W-2 0.25-2ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-08	☒ PCB (8082A)
W-3 0.25-2ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-09	☒ PCB (8082A)
W-4 0.25-2ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-10	☒ PCB (8082A)
W-5 0.25-2ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-11	☒ PCB (8082A)
DUP-1-2018-08-16	8/16/2018	☒ Soil ☐ Concrete	☒ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-12	☒ PCB (8082A)
W-6 0.5-2ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-13	☒ PCB (8082A)
W-7 0.25-2ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-14	☒ PCB (8082A)
W-8 0.25-2ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-15	☒ PCB (8082A)
W-9 0.25-2ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-16	☒ PCB (8082A)
W-10 0.25-2ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-17	☒ PCB (8082A)
W-11 0.25-2ft	8/16/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-18	☒ PCB (8082A)
W-12 0.25-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☒ MS/MSD ☐ EB ☐ TB	1808510-19	☒ PCB (8082A)
W-13 0.25-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-20	☒ PCB (8082A)

Analytical data were evaluated for the following criteria:

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Data completeness
☒	☐	☐	Holding times/Sample preservation

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☒	Surrogate recoveries – **TMX surrogate (column 1) above QC limit in sample 16. Aroclor 1242, 1254, and 1260 results for sample 16 considered an estimate (J qualified).**
☒	☐	☐	Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
☒	☐	☐	Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample) - MS/MSD requested and performed on sample 2. Recoveries and RPDs in QC limits. MS/MSD requested and performed on sample 19 (separate analytical batch). Recoveries for Aroclor 1016 (both columns) in MS and MSD above QC limit. As Aroclor 1016 was ND in sample, and recoveries for Aroclor 1260 were within QC limits, no qualification to data was indicated.
☐	☒	☐	Laboratory duplicate RPDs (if performed)
☒	☐	☐	Field duplicate RPDs (if collected) – Primary sample identified as W-5 0.25-2ft (1808508-11). Both samples all ND.
☒	☐	☒	Dual Column RPDs (pesticide and PCB aroclors only) – **RPD exceeds 40% for sample 18, Aroclor 1242 result. Laboratory chose to use lower concentration result (from confirmation column) due to observed matrix interference. Sample 18 Aroclor 1242 result considered an estimate (J qualified).**
☒	☐	☐	Method blank results
☐	☒	☐	Field/equipment blank results (if collected)
☐	☒	☐	Trip blank results
☒	☐	☐	Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
☒	☐	☐	Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
☒	☐	☐	Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
☒	☐	☐	Percent solids
☐	☒	☐	Mass spectrometer tuning (GC/MS only)
☐	☒	☐	Internal standard performance (GC/MS only)
☐	☒	☐	Interference check sample results (metals only)
☐	☒	☐	ICP serial dilution results (metals only)
☒	☐	☐	Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For sample 18, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. RLs for all ND results below Project Action Levels (PAL).

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator
AEI Consultants Environmental & Engineering Services

Table 1
Summary of Qualified Data
ESS Laboratory Report 1808508

Sample	Analysis	Compound	Original Result	Units	Data Validation-Based Result	Reason Code
W-9 0.25-2ft	PCBs	Aroclor 1242	0.8	mg/kg	**0.8 J**	SA
		Aroclor 1254	0.8	mg/kg	**0.8 J**	SA
		Aroclor 1260	0.2	mg/kg	**0.2 J**	SA
W-11 0.25-2ft	PCBs	Aroclor 1242	1.0	mg/kg	**1.0 J**	DC

mg/kg = milligrams per kilogram or parts per million (ppm)
Bold indicates detected final concentration
Reason codes are defined within Table 2.

Table 2
Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
TB	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808509**; Report Issued **October 23, 2018**
Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
W-33a 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-01	☒ PCB (8082A)
W-33b 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-02	☒ PCB (8082A)
W-26 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-03	☒ PCB (8082A)
W-25 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-04	☒ PCB (8082A)
W-23 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-05	☒ PCB (8082A)
W-22 0-1.5ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-06	☒ PCB (8082A)
W-21 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-07	☒ PCB (8082A)
W-20 0.5-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-08	☒ PCB (8082A)
W-19 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-09	☒ PCB (8082A)
W-18 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-10	☒ PCB (8082A)
W-16 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-11	☒ PCB (8082A)
W-15 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-12	☒ PCB (8082A)
W-17 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-13	☒ PCB (8082A)
W-14 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-14	☒ PCB (8082A)
W-45 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-15	☒ PCB (8082A)
W-29 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-16	☒ PCB (8082A)

Analytical data were evaluated for the following criteria:

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Data completeness – Sample missed on COC, added by lab at the direction of client.
☒	☐	☐	Holding times/Sample preservation
☒	☐	☐	Surrogate recoveries – Surrogate recoveries for samples 02, 13, and 14 diluted below MRL. No qualification indicated.
☒	☐	☐	Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
☐	☒	☐	Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☐	☒	☐	Laboratory duplicate RPDs (if performed)
☒	☐	☐	Field duplicate RPDs (if collected) – Primary sample identified as W-33b 0-2ft (1808509-02) for DUP-2, and W-21 0-2ft (1808509-07) for DUP-3. Both field duplicates reported in package 1808511. However, they were extracted 69 days after collection, when they were taken off hold. While the extraction was within the method hold time (unspecified for extraction), extractions were performed well beyond the QAPP 7-day hold time. In addition, the results, particularly in comparison to the other duplicate results, indicate a very poor reproducibility that far beyond the QAPP hold time. These field duplicates are considered to be unusable, and therefore the primary samples were not qualified.
☒	☐	☐	Dual Column RPDs (pesticide and PCB aroclors only)
☒	☐	☐	Method blank results
☐	☒	☐	Field/equipment blank results (if collected)
☐	☒	☐	Trip blank results
☒	☐	☐	Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
☒	☐	☐	Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
☒	☐	☐	Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
☒	☐	☐	Percent solids
☐	☒	☐	Mass spectrometer tuning (GC/MS only)
☐	☒	☐	Internal standard performance (GC/MS only)
☐	☒	☐	Interference check sample results (metals only)
☐	☒	☐	ICP serial dilution results (metals only)
☒	☐	☐	Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For samples 05, 07, and 11, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. For samples 02, 13, and 14, all results were reported from diluted runs (dilution factors of 50, 100, and 20, respectively), with RLs raised. RLs for all ND results below Project Action Levels (PALs) (maximum of 6.3 mg/kg for sample 13; PAL = 25 mg/kg).

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator
AEI Consultants Environmental & Engineering Services

Table 1
Summary of Qualified Data
ESS Laboratory Report 1808509

Sample	Analysis	Compound	Original Result	Units	Data Validation-Based Result	Reason Code
None	None	No data qualifications				

mg/kg = milligrams per kilogram or parts per million (ppm)
Bold indicates detected final concentration
Reason codes are defined within Table 2.

Table 2
Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
TB	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808510**; Report Issued **October 7, 2018**
Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
W-30 0.25-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-01	☒ PCB (8082A)
DUP-1-2018-08-17	8/17/2018	☒ Soil ☐ Concrete	☒ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-02	☒ PCB (8082A)
W-31 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-03	☒ PCB (8082A)
W-32 0.5-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-04	☒ PCB (8082A)
W-39 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-05	☒ PCB (8082A)
W-38 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-06	☒ PCB (8082A)
W-37 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-07	☒ PCB (8082A)
W-36 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-08	☒ PCB (8082A)
W-35 0-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-09	☒ PCB (8082A)
W-34 1-2ft	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☒ MS/MSD ☐ EB ☐ TB	1808510-10	☒ PCB (8082A)

Analytical data were evaluated for the following criteria:

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Data completeness
☒	☐	☐	Holding times/Sample preservation
☒	☐	☒	Surrogate recoveries – **TMX surrogate (column 1) above QC limit in sample 07. Aroclor 1254 result for sample 07 considered an estimate (J qualified)**
☒	☐	☐	Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
☒	☐	☐	Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample) - MS/MSD not specifically requested, but performed on sample 10. Recoveries and RPDs in QC limits.
☐	☒	☐	Laboratory duplicate RPDs (if performed)
☒	☐	☐	Field duplicate RPDs (if collected) – Primary sample identified as W-30 0.25-2ft (1808510-01).
☒	☐	☐	Dual Column RPDs (pesticide and PCB aroclors only)
☒	☐	☐	Method blank results

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☐	☒	☐	Field/equipment blank results (if collected)
☐	☒	☐	Trip blank results
☒	☐	☐	Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
☒	☐	☐	Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
☒	☐	☐	Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
☒	☐	☐	Percent solids
☐	☒	☐	Mass spectrometer tuning (GC/MS only)
☐	☒	☐	Internal standard performance (GC/MS only)
☐	☒	☐	Interference check sample results (metals only)
☐	☒	☐	ICP serial dilution results (metals only)
☒	☐	☐	Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For samples 05 and 08, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. RLs for all ND results below Project Action Levels (PAL).

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator
AEI Consultants Environmental & Engineering Services

Table 1
Summary of Qualified Data
ESS Laboratory Report 1808510

Sample	Analysis	Compound	Original Result	Units	Data Validation-Based Result	Reason Code
W-37 0-2ft	PCBs	Aroclor 1254	0.2	mg/kg	**0.2 J**	SA

mg/kg = milligrams per kilogram or parts per million (ppm)
Bold indicates detected final concentration
Reason codes are defined within Table 2.

Table 2
Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
TB	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808523**; Report Issued **October 23, 2018**
Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
B-845-082018 3ft	8/20/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808523-01	☒ PCB (8082A)
B-850-082018 3ft	8/20/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808523-02	☒ PCB (8082A)
B-855-082018 3ft	8/20/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808523-03	☒ PCB (8082A)
B-860-082018 3ft	8/20/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808523-04	☒ PCB (8082A)
SW-603-082018 0-3ft	8/20/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808523-05	☒ PCB (8082A)
SW-608-082018 0-3ft	8/20/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808523-06	☒ PCB (8082A)
SW-613-082018 0-3ft	8/20/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808523-07	☒ PCB (8082A)
SW-618-082018 0-3ft	8/20/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808523-08	☒ PCB (8082A)
B-825-082018 3ft	8/20/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808523-09	☒ PCB (8082A)
SW-423-082018 0-3ft	8/20/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808523-10	☒ PCB (8082A)
SW-428-082018 0-3ft	8/20/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808523-11	☒ PCB (8082A)

Analytical data were evaluated for the following criteria:

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Data completeness
☒	☐	☐	Holding times/Sample preservation
☒	☐	☒	Surrogate recoveries – Surrogate recoveries for samples 02 and 07 primary runs and samples 08 and 11 diluted runs were diluted below MRL. (No qualification indicated.) **DCB surrogate above QC limit (Primary column) for sample 03 in undiluted and diluted sample run. Detected results for Sample 03 (Aroclors 1242, 1254, and 1260) are considered estimates (J qualified). DCB surrogate above QC limit (Primary column) for sample 09 in 5x dilution sample run, from which Aroclor 1254 result was reported. Aroclor 1254 result for Sample 09 is considered an estimate (J qualified).**
☒	☐	☐	Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
☐	☒	☐	Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)
☐	☒	☐	Laboratory duplicate RPDs (if performed)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☐	☒	☐	Field duplicate RPDs (if collected)
☒	☐	☒	Dual Column RPDs (pesticide and PCB aroclors only) – **Dual column RPD > 40% for sample 01 Aroclor 1242 and for sample 10 Aroclor 1260; results considered estimates (J qualified)**
☒	☐	☐	Method blank results
☐	☒	☐	Field/equipment blank results (if collected)
☐	☒	☐	Trip blank results
☒	☐	☐	Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
☒	☐	☐	Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
☒	☐	☐	Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
☒	☐	☐	Percent solids
☐	☒	☐	Mass spectrometer tuning (GC/MS only)
☐	☒	☐	Internal standard performance (GC/MS only)
☐	☒	☐	Interference check sample results (metals only)
☐	☒	☐	ICP serial dilution results (metals only)
☒	☐	☐	Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – Reporting limits for all Aroclors raised (including ND results) for samples 02 and 07 due to dilution (raised to 20x standard RL). RLs remain below Project Action Levels (PAL). No QC issue. Samples 03, 04, and 08-11 only reporting limits raised were for detected Aroclors. No impact on data sensitivity. RLs for all ND results below PALs.

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator
AEI Consultants Environmental & Engineering Services

Table 1
Summary of Qualified Data
ESS Laboratory Report 1808523

Sample	Analysis	Compound	Original Result	Units	Data Validation-Based Result	Reason Code
B-845-082018 3ft	PCBs	Aroclor 1242	0.1	mg/kg	**0.1 J**	DC
B-855-082018 3ft	PCBs	Aroclor 1242	1.7	mg/kg	**1.7 J**	SA
		Aroclor 1254	8.2	mg/kg	**8.2 J**	SA
		Aroclor 1260	1.6	mg/kg	**1.6 J**	SA
B-625-082018 3ft	PCBs	Aroclor 1254	2.1	mg/kg	**2.1 J**	SA
SW-423-082018 3ft	PCBs	Aroclor 1260	0.3	mg/kg	**0.3 J**	DC

mg/kg = milligrams per kilogram or parts per million (ppm)
Bold indicates detected final concentration
Reason codes are defined within Table 2.

Table 2
Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
TB	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808557**; Report Issued **October 5, 2018**
Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
B-455-082118 2ft	8/21/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808557-01	☒ PCB (8082A)
B-465-082118 2ft	8/21/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808557-02	☒ PCB (8082A)
B-470-082118 2ft	8/21/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808557-03	☒ PCB (8082A)
SW-643-082118 0-2ft	8/21/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808557-04	☒ PCB (8082A)
SW-663-082118 0-2ft	8/21/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808557-05	☒ PCB (8082A)

Analytical data were evaluated for the following criteria:

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Data completeness
☒	☐	☐	Holding times/Sample preservation
☒	☐	☐	Surrogate recoveries – Surrogate recoveries for samples 04 & 05 diluted below MRL. (No qualification indicated.)
☒	☐	☐	Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
☐	☒	☐	Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)
☐	☒	☐	Laboratory duplicate RPDs (if performed)
☐	☒	☐	Field duplicate RPDs (if collected)
☒	☐	☒	Dual Column RPDs (pesticide and PCB aroclors only) – **Dual column RPD > 40% for sample 01 Aroclor 1260; result considered an estimate (J qualified)**
☒	☐	☐	Method blank results
☐	☒	☐	Field/equipment blank results (if collected)
☐	☒	☐	Trip blank results
☒	☐	☐	Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
☒	☐	☐	Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
☒	☐	☐	Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Percent solids
☐	☒	☐	Mass spectrometer tuning (GC/MS only)
☐	☒	☐	Internal standard performance (GC/MS only)
☐	☒	☐	Interference check sample results (metals only)
☐	☒	☐	ICP serial dilution results (metals only)
☒	☐	☐	Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – Reporting limits for all Aroclors raised (including ND results) for samples 04 and 05 due to dilution (raised to 20x standard RL). RLs remain below Project Action Levels (PAL). No QC issue. Samples 01-03, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. RLs for all ND results below PALs.

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator
AEI Consultants Environmental & Engineering Services

Table 1
Summary of Qualified Data
ESS Laboratory Report 1808557

Sample	Analysis	Compound	Original Result	Units	Data Validation-Based Result	Reason Code
B-455-082118-2ft	PCBs	Aroclor 1260	1.6	mg/kg	**1.6 J**	DC

mg/kg = milligrams per kilogram or parts per million (ppm)
Bold indicates detected final concentration
Reason codes are defined within Table 2.

Table 2
Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
TB	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808591**; Report Issued **October 24, 2018**
Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
B-540-082218 7FT	8/22/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808591-01	☒ PCB (8082A)
B-525-082218 7FT	8/22/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808591-02	☒ PCB (8082A)
B-545-082218 7FT	8/22/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808591-03	☒ PCB (8082A)
B-530-082218 7FT	8/22/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808591-04	☒ PCB (8082A)
B-550-082218 7FT	8/22/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808591-05	☒ PCB (8082A)
B-535-082218 7FT	8/22/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808591-06	☒ PCB (8082A)

Analytical data were evaluated for the following criteria:

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Data completeness
☒	☐	☐	Holding times/Sample preservation
☒	☐	☒	Surrogate recoveries - **DCB surrogate above QC limit (Primary column) for sample 05 in undiluted run. Detected results for Sample 05 Aroclors 1242 and 1260 are considered estimates (J qualified).**
☒	☐	☐	Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
☐	☒	☐	Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)
☐	☒	☐	Laboratory duplicate RPDs (if performed)
☐	☒	☐	Field duplicate RPDs (if collected)
☒	☐	☒	Dual Column RPDs (pesticide and PCB aroclors only) – **Dual column RPD > 40% for sample 01 Aroclor 1242; result considered an estimate (J qualified)**
☒	☐	☐	Method blank results
☐	☒	☐	Field/equipment blank results (if collected)
☐	☒	☐	Trip blank results
☒	☐	☐	Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
☒	☐	☐	Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
☒	☐	☐	Percent solids
☐	☒	☐	Mass spectrometer tuning (GC/MS only)
☐	☒	☐	Internal standard performance (GC/MS only)
☐	☒	☐	Interference check sample results (metals only)
☐	☒	☐	ICP serial dilution results (metals only)
☒	☐	☐	Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For samples 02-06, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. RLs for all ND results below PALs.

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator
AEI Consultants Environmental & Engineering Services

Table 1
Summary of Qualified Data
ESS Laboratory Report 1808591

Sample	Analysis	Compound	Original Result	Units	Data Validation-Based Result	Reason Code
B-540-082218 7FT	PCBs	Aroclor 1242	0.2	mg/kg	**0.2 J**	DC
B-550-082218 7FT	PCBs	Aroclor 1242	0.1	mg/kg	**0.1 J**	SA
		Aroclor 1260	0.4	mg/kg	**0.4 J**	SA

mg/kg = milligrams per kilogram or parts per million (ppm)
Bold indicates detected final concentration
Reason codes are defined within Table 2.

Table 2
Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
TB	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808654**; Report Issued **October 23, 2018**
Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
B-748-082318 4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-01	☒ PCB (8082A)
B-749-082318 4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-02	☒ PCB (8082A)
B-750-082318 4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-03	☒ PCB (8082A)
B-751-082318 4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-04	☒ PCB (8082A)
B-752-082318 4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-05	☒ PCB (8082A)
B-753-082318 4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-06	☒ PCB (8082A)
B-754-082318 4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-07	☒ PCB (8082A)
B-755-082318 4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☒ MS/MSD ☐ EB ☐ TB	1808654-08	☒ PCB (8082A)
B-755-082318-1 4FT	8/23/2018	☒ Soil ☐ Concrete	☒ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-09	☒ PCB (8082A)
B-756-082318 4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-10	☒ PCB (8082A)
B-757-082318 4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-11	☒ PCB (8082A)
B-758-082318 4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-12	☒ PCB (8082A)
B-759-082318 4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-13	☒ PCB (8082A)
B-760-082318 4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-14	☒ PCB (8082A)
B-761-082318 4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-15	☒ PCB (8082A)
B-762-082318 4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-16	☒ PCB (8082A)
B-763-082318 4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-17	☒ PCB (8082A)
SW-497-082318 0-4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-18	☒ PCB (8082A)
SW-498-082318 0-4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808654-19	☒ PCB (8082A)

Analytical data were evaluated for the following criteria:

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Data completeness
☒	☐	☐	Holding times/Sample preservation
☒	☐	☐	Surrogate recoveries

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
☒	☐	☐	Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)
☐	☒	☐	Laboratory duplicate RPDs (if performed)
☒	☐	☒	Field duplicate RPDs (if collected) – **Primary/Field Duplicate are samples 08 and 09; Aroclor 1242 = 0.1 / ND (<0.06). Results qualified as estimates (J/UJ) based on professional judgment.**
☒	☐	☐	Dual Column RPDs (pesticide and PCB aroclors only)
☒	☐	☐	Method blank results
☐	☒	☐	Field/equipment blank results (if collected)
☐	☒	☐	Trip blank results
☒	☐	☐	Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
☒	☐	☐	Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
☒	☐	☐	Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
☒	☐	☐	Percent solids
☐	☒	☐	Mass spectrometer tuning (GC/MS only)
☐	☒	☐	Internal standard performance (GC/MS only)
☐	☒	☐	Interference check sample results (metals only)
☐	☒	☐	ICP serial dilution results (metals only)
☒	☐	☐	Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For samples 01-05, 10-11, 14, 18, and 19, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. RLs for all ND results below PALs.

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator
AEI Consultants Environmental & Engineering Services

Table 1
Summary of Qualified Data
ESS Laboratory Report 1808654

Sample	Analysis	Compound	Original Result	Units	Data Validation-Based Result	Reason Code
B-755-082318 4FT	PCBs	Aroclor 1242	0.1	mg/kg	**0.1 J**	DU
B-755-082318-1 4FT	PCBs	Aroclor 1242	0.06 U	mg/kg	0.06 UJ	DU

mg/kg = milligrams per kilogram or parts per million (ppm)
Bold indicates detected final concentration
Reason codes are defined within Table 2.

Table 2
Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
TB	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808655**; Report Issued **October 23, 2018**
Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
SW-499-082318 0-4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808655-01	☒ PCB (8082A)
SW-500-082318 0-4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808655-02	☒ PCB (8082A)
SW-501-082318 0-4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808655-03	☒ PCB (8082A)
SW-502-082318 0-4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808655-04	☒ PCB (8082A)
SW-503-082318 0-4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808655-05	☒ PCB (8082A)
SW-504-082318 0-4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808655-06	☒ PCB (8082A)
SW-505-082318 0-4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808655-07	☒ PCB (8082A)
SW-506-082318 0-4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808655-08	☒ PCB (8082A)
SW-507-082318 0-4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808655-09	☒ PCB (8082A)
SW-508-082318 0-4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☒ MS/MSD ☐ EB ☐ TB	1808655-10	☒ PCB (8082A)
SW-508-082318-1 0-4FT	8/23/2018	☒ Soil ☐ Concrete	☒ FD ☐ MS/MSD ☐ EB ☐ TB	1808655-11	☒ PCB (8082A)
SW-671-082318 0-4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808655-12	☒ PCB (8082A)
SW-672-082318 0-4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808655-13	☒ PCB (8082A)
SW-673-082318 0-4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808655-14	☒ PCB (8082A)
SW-674-082318 0-4FT	8/23/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808655-15	☒ PCB (8082A)

Analytical data were evaluated for the following criteria:

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Data completeness
☒	☐	☐	Holding times/Sample preservation
☒	☐	☐	Surrogate recoveries
☒	☐	☐	Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
☒	☐	☐	Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)
☐	☒	☐	Laboratory duplicate RPDs (if performed)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☒	Field duplicate RPDs (if collected) – **Primary/Field Duplicate are samples 10 and 11; Aroclor 1242 RPD= above maximum; results qualified as estimates (J).**
☒	☐	☐	Dual Column RPDs (pesticide and PCB aroclors only)
☒	☐	☐	Method blank results
☐	☒	☐	Field/equipment blank results (if collected)
☐	☒	☐	Trip blank results
☒	☐	☐	Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
☒	☐	☐	Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
☒	☐	☐	Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
☒	☐	☐	Percent solids
☐	☒	☐	Mass spectrometer tuning (GC/MS only)
☐	☒	☐	Internal standard performance (GC/MS only)
☐	☒	☐	Interference check sample results (metals only)
☐	☒	☐	ICP serial dilution results (metals only)
☒	☐	☐	Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For all samples (01-15), only reporting limits raised were for detected Aroclors. No impact on data sensitivity. RLs for all ND results below PALs.

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator
AEI Consultants Environmental & Engineering Services

Table 1
Summary of Qualified Data
ESS Laboratory Report 1808655

Sample	Analysis	Compound	Original Result	Units	Data Validation-Based Result	Reason Code
SW-508-082318 0-4FT	PCBs	Aroclor 1242	0.4	mg/kg	**0.4 J**	DU
SW-508-082318-1 0-4FT	PCBs	Aroclor 1242	0.2	mg/kg	**0.2 J**	DU

mg/kg = milligrams per kilogram or parts per million (ppm)
Bold indicates detected final concentration
Reason codes are defined within Table 2.

Table 2
Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
TB	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808723**; Report Issued **October 23, 2018**
Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
B-100-082718 2ft	8/27/2018	☒ Soil ☐ Concrete	☐ FD ☒ MS/MSD ☐ EB ☐ TB	1808723-01	☒ PCB (8082A)
B-100-082718-1 2ft	8/27/2018	☒ Soil ☐ Concrete	☒ FD ☐ MS/MSD ☐ EB ☐ TB	1808723-02	☒ PCB (8082A)
B-105-082718 2ft	8/27/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808723-03	☒ PCB (8082A)
B-110-082718 2ft	8/27/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808723-04	☒ PCB (8082A)
SW-100-082718 0-2ft	8/27/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808723-05	☒ PCB (8082A)
SW-105-082718 0-2ft	8/27/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808723-06	☒ PCB (8082A)
W-14 0-1	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808723-07	☒ PCB (8082A)
W-14 1-2	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808723-08	☒ PCB (8082A)
W-17 1-2	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808723-09	☒ PCB (8082A)
W-17 0-1	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808723-10	☒ PCB (8082A)
W-33B 0-1	8/17/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808723-11	☒ PCB (8082A)

Analytical data were evaluated for the following criteria:

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Data completeness
☒	☐	☒	Holding times/Sample preservation – **Samples 07-11 were extracted 10 days after collection (submitted to lab 10 days after collection). While the extractions were within the method hold time (unspecified for extraction), extraction was performed beyond the QAPP 7-day hold time; therefore, results are considered estimates (qualified J/UJ).**
☒	☐	☒	Surrogate recoveries – **DCB surrogate above QC limit (Primary column) for sample 02 in diluted run. Detected results for Sample 02 Aroclors 1242 and 1260 are considered estimates (J qualified).** (Detected result for Aroclor 1254 sample 02 diluted run came from confirmation column; no qualification to data). Surrogate recoveries for samples 05 (secondary analytical run only) and 06, 08, and 10 (primary runs) diluted below MRL. (No qualification indicated).
☒	☐	☐	Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☒	Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample) – **MS and MSD recoveries for sample 01, Aroclors 1016 and first column 1260 were above QC limit; detected results for sample 01 considered estimates (J qualified).**
☐	☒	☐	Laboratory duplicate RPDs (if performed)
☒	☐	☐	Field duplicate RPDs (if collected)
☒	☐	☐	Dual Column RPDs (pesticide and PCB aroclors only)
☒	☐	☐	Method blank results
☐	☒	☐	Field/equipment blank results (if collected)
☐	☒	☐	Trip blank results
☒	☐	☐	Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
☒	☐	☐	Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
☒	☐	☐	Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
☒	☐	☐	Percent solids
☐	☒	☐	Mass spectrometer tuning (GC/MS only)
☐	☒	☐	Internal standard performance (GC/MS only)
☐	☒	☐	Interference check sample results (metals only)
☐	☒	☐	ICP serial dilution results (metals only)
☒	☐	☐	Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For samples 01-05, 07, and 11, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. For samples 06, 08, and 10, all results reported from diluted runs, with RLs raised. RLs for all ND results below PALs (25 mg/kg for PCBs).

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator
AEI Consultants Environmental & Engineering Services

Table 1
Summary of Qualified Data
ESS Laboratory Report 1808723

Sample	Analysis	Compound	Original Result	Units	Data Validation-Based Result	Reason Code
B-100-082718 2ft	PCBs	Aroclor 1242	1.6	mg/kg	**1.6 J**	AM
		Aroclor 1254	5.2	mg/kg	**5.2 J**	AM
		Aroclor 1260	0.9	mg/kg	**0.9 J**	AM
B-100-082718-1 2ft	PCBs	Aroclor 1242	1.9	mg/kg	**1.9 J**	SA
		Aroclor 1260	1.0	mg/kg	**1.0 J**	SA
W-14 0-1	PCBs	Aroclor 1242	1.6	mg/kg	**1.6 J**	HT
		Aroclor 1254	8.7	mg/kg	**8.7 J**	HT
		Aroclor 1260	1.1	mg/kg	**1.1 J**	HT
		All remaining aroclors	0.06 U	mg/kg	0.06 UJ	HT
W-14 1-2	PCBs	Aroclor 1242	1.7	mg/kg	**1.7 J**	HT
		Aroclor 1254	17.8	mg/kg	**17.8 J**	HT
		Aroclor 1260	2.9	mg/kg	**2.9 J**	HT
		All remaining aroclors	1.1 U	mg/kg	1.1 UJ	HT
W-17 1-2	PCBs	Aroclor 1254	1.0	mg/kg	**1.0 J**	HT
		All remaining aroclors	0.06 U	mg/kg	0.06 UJ	HT
W-17 0-1	PCBs	Aroclor 1254	42.9	mg/kg	**42.9 J**	HT
		All remaining aroclors	2.9 U	mg/kg	2.9 UJ	HT

Sample	Analysis	Compound	Original Result	Units	Data Validation-Based Result	Reason Code
W-33B 0-1	PCBs	Aroclor 1254	0.4	mg/kg	**0.4 J**	HT
		Aroclor 1260	0.07	mg/kg	**0.07 J**	HT
		All remaining aroclors	0.05 U	mg/kg	0.05 UJ	HT

mg/kg = milligrams per kilogram or parts per million (ppm)
Bold indicates detected final concentration
Reason codes are defined within Table 2.

Table 2
Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
TB	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808724**; Report Issued **October 23, 2018**
Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
B-872-082718-C	8/27/2018	☐ Soil ☒ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808724-01	☒ PCB (8082A)
B-876-082718-C	8/27/2018	☐ Soil ☒ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808724-02	☒ PCB (8082A)
B-888-082718-C	8/27/2018	☐ Soil ☒ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808724-03	☒ PCB (8082A)
B-889-082718-C	8/27/2018	☐ Soil ☒ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808724-04	☒ PCB (8082A)
B-890-082718-C	8/27/2018	☐ Soil ☒ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808724-05	☒ PCB (8082A)
B-891-082718-C	8/27/2018	☐ Soil ☒ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808724-06	☒ PCB (8082A)
B-892-082718-C	8/27/2018	☐ Soil ☒ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808724-07	☒ PCB (8082A)
B-893-082718-C	8/27/2018	☐ Soil ☒ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808724-08	☒ PCB (8082A)
B-894-082718-C	8/27/2018	☐ Soil ☒ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808724-09	☒ PCB (8082A)
B-895-082718-C	8/27/2018	☐ Soil ☒ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808724-10	☒ PCB (8082A)

Analytical data were evaluated for the following criteria:

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Data completeness
☒	☐	☐	Holding times/Sample preservation
☒	☐	☒	Surrogate recoveries – **TMX surrogate below QC limit (Primary column) for sample 06. Results for sample 06 are considered estimates (UJ qualified).**
☒	☐	☐	Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
☐	☒	☐	Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)
☐	☒	☐	Laboratory duplicate RPDs (if performed)
☐	☒	☐	Field duplicate RPDs (if collected)
☒	☐	☐	Dual Column RPDs (pesticide and PCB aroclors only)
☒	☐	☐	Method blank results
☐	☒	☐	Field/equipment blank results (if collected)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☐	☒	☐	Trip blank results
☒	☐	☐	Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
☒	☐	☐	Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
☒	☐	☐	Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
☒	☐	☐	Percent solids
☐	☒	☐	Mass spectrometer tuning (GC/MS only)
☐	☒	☐	Internal standard performance (GC/MS only)
☐	☒	☐	Interference check sample results (metals only)
☐	☒	☐	ICP serial dilution results (metals only)
☒	☐	☐	Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – No dilutions performed. RLs (all concrete samples) below soil Project Action Limits (PAL).

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator
AEI Consultants Environmental & Engineering Services

Table 1
Summary of Qualified Data
ESS Laboratory Report 1808724

Sample	Analysis	Compound	Original Result	Units	Data Validation-Based Result	Reason Code
B-891-082718-C	PCBs	All Aroclors	ND (0.2 U)	mg/kg	**0.2 UJ**	SB

mg/kg = milligrams per kilogram or parts per million (ppm)
Bold indicates detected final concentration
Reason codes are defined within Table 2.

Table 2
Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
TB	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808745**; Report Issued **October 23, 2018**
Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
B-180-082818 2ft	8/28/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808745-01	☒ PCB (8082A)
B-185-082818 2ft	8/28/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808745-02	☒ PCB (8082A)
B-190-082818 2ft	8/28/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808745-03	☒ PCB (8082A)
SW-155-082818 0-2ft	8/28/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808745-04	☒ PCB (8082A)
B-480-082818 2ft	8/28/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808745-05	☒ PCB (8082A)
SW-688-082818 0-2ft	8/28/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808745-06	☒ PCB (8082A)
SW-677-082818 0-2ft	8/28/2018	☒ Soil ☐ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808745-07	☒ PCB (8082A)

Analytical data were evaluated for the following criteria:

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
☒	☐	☐	Data completeness
☒	☐	☐	Holding times/Sample preservation
☒	☐	☐	Surrogate recoveries –Surrogate recoveries for samples 02 and 03 (secondary analytical run only) and 01 and 06 (primary runs) diluted below MRL. (No qualification indicated).
☒	☐	☐	Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
☐	☒	☐	Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)
☐	☒	☐	Laboratory duplicate RPDs (if performed)
☐	☒	☐	Field duplicate RPDs (if collected)
☒	☐	☐	Dual Column RPDs (pesticide and PCB aroclors only)
☒	☐	☐	Method blank results
☐	☒	☐	Field/equipment blank results (if collected)
☐	☒	☐	Trip blank results
☒	☐	☐	Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)